Mehmet Furkan Sahin

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OBJECTIVE

I am a computer engineer who loves solving challenging problems. This is why I am currently working on distributed databases. My objective is to solve difficult problems to make people's life easier by using the virtue of computer science in any field.

EDUCATION

Faculty of Engineering, *Bilkent University, Ankara*
B.S. in the Department of Computer Engineering — June 2017

- CGPA: 3.71/4.00
- Ranked 659th. in Nationwide University Entrance Exam among 1.8 million students.

EXPERIENCES

Software Engineer — Jan 2019 - Apr 2019
Software Engineer II — Apr 2019 - Present
Microsoft, Amsterdam, NETHERLANDS

- I have been working as a Software Engineer on Hyperscale (Citus) product which is an Azure Cloud based fully managed database management system.
  - I have implemented high availability for our distributed PostgreSQL offering which enabled us with a 30% revenue increase.
  - I have implemented near zero compute and storage scaling.
  - I have redesigned the API layer of our managed offering to provide a much better user experience.

Software Engineer — July 2017 - Jan 2019
Citus Data Inc. Istanbul, TURKEY

- I created an open source PostgreSQL extension called *TopN* to approximate the top n number of elements from a table. For information reach to *my blog post*.

Research Assistant — July 2016 - August 2016
Institute of High Performance Computing, A*Star, SINGAPORE

- I worked on a 3D robotic arm model which can play ping pong.

Software Engineering Intern — May 2016 - July 2016
Citus Data Inc., Istanbul, TURKEY

- I created percentile approximations extension for PostgreSQL. Percentile queries are speeded up 400x.

Undergrad Researcher — Aug 2015 - Jan 2016
Human-Computer Interaction Group - EPFL, SWITZERLAND

- I developed a data visualization tool for MOOCs data with D3 JS.

PROJECTS

CrypDist, *Senior Project, Bilkent University* — May 2017
CrypDist is a blockchain based encrypted content distribution network. The project aims to avoid data access blocks and reduce the time needed to deliver big data.

Distributed Hash Table, *Bilkent University* — May 2017
Implemented a scalable and fault-tolerant distributed hashtable, structured with Chord algorithm.

High Dynamic Range Histogram, *Citus Data* — June 2016
Created a histogram based percentile approximation extension for PostgreSQL database systems. It provides 400x speed increase with 0.0001 error ratio.

Section Checker, *Bilkent University* — Sep 2016 - Dec 2016
Developed a program which checks available quotas periodically for desired course section and warns the user in case of availability. It was used by more than 1000 Bilkent University students in course selection period.

HONORS & SCHOLARSHIPS

High Honor, *Bilkent University* — 2013 - 2017
Undergraduate Researcher Scholarship, *Turkish Science Foundation* — 2015
IEEEXtreme Top Ranked Coder, *IEEE* — 2013 - 2016

SKILLS

Programming — C/C++, C#, Ruby, Python, SQL, Java

Languages — Turkish (Native), English (Professional Proficiency), Dutch (Beginner), French (Beginner), German (Beginner)